

AUS920010258US1

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method of developing a domain-specific analytic application having at least one predefined data mining model, the method comprising the steps of:

identifying a business problem to be solved;

selecting a data mining algorithm appropriate for solving the business problem;

defining data schema for use as inputs and outputs to and from the mining algorithm, the data schema including input data schema and output data schema; and

defining a data mining model dependent upon the data schema, defining a data mining model resulting in the creation of a predefined data mining model; whereby a domain-specific analytic application is developed, the analytic application having at least one predefined data mining model.

2. (Original) The method of claim 1 wherein the analytic application comprises the capabilities of:

production training the predefined data mining model using the historical data in the input data schema, wherein use of the capability of production training the predefined data mining model results in creation of a production trained data

AUS920010258US1

mining model; and

production scoring production data by use of the production trained data mining model.

3. (Original) The method of claim 2 wherein the capability of production training the predefined data mining model further comprises the capability of operating the predefined data mining model in training mode using end user historical data in the input data schema.
4. (Original) The method of claim 2 wherein the capability of production scoring production data by use of the production trained data mining model further comprises the capability of applying the production trained data mining model to historical data stored in input schema.
A1
5. (Original) The method of claim 2 wherein the capability of production scoring production data by use of the production trained data mining model further comprises the capability of applying the production trained data mining model to production data stored read from an end user's production database.
6. (Original) The method of claim 1 wherein the analytic application further comprises the capability of populating the input data schema with historical data.
7. (Original) The method of claim 6 wherein the capability of populating the input data

AUS920010258US1

schema with historical data further comprises the capabilities of extracting from historical data values of prediction data fields and writing the values of the prediction data fields into the input data schema for the data mining model.

8. (Currently Amended) The method of claim 1 wherein identifying a business problem to be solved further comprises identifying a [[a]] ~~business~~ business problem capable of expression through the use of referents that are defined in a specific computational domain.
9. (Original) The method of claim 1 wherein selecting a mining algorithm appropriate for solving the business problem further comprises selecting a radial basis function algorithm for value prediction.
A1
10. (Original) The method of claim 1 wherein selecting a mining algorithm appropriate for solving the business problem further comprises selecting a neural value prediction algorithm.
11. (Original) The method of claim 1 wherein selecting a mining algorithm appropriate for solving the business problem further comprises selecting a demographic clustering algorithm.
12. (Original) The method of claim 1 wherein selecting a mining algorithm appropriate for solving the business problem further comprises selecting a neural clustering

AUS920010258US1

algorithm.

13. (Original) The method of claim 1 wherein selecting a mining algorithm appropriate for solving the business problem further comprises selecting a tree classification algorithm.

14. (Original) The method of claim 1 wherein selecting a mining algorithm appropriate for solving the business problem further comprises selecting a neural classification algorithm.

15. (Original) The method of claim 1 wherein selecting a mining algorithm appropriate for solving the business problem further comprises selecting an associations algorithm.

16. (Original) The method of claim 1 wherein defining data schema for the mining algorithm further comprises the steps of:

selecting from historical data for inclusion in input data schema predictor fields capable of supporting the use of a data mining algorithm in predicting the value of a prediction field; and

selecting for inclusion in output data schema at least one prediction field.

17. (Original) The method of claim 1 wherein defining data schema for the mining algorithm further comprises selecting for inclusion in output schema sufficient key

AUS920010258US1

fields to comprise a unique key for identification in production data of storage locations for the output data from the data mining algorithm.

18. (Original) The method of claim 1 wherein defining a data mining model based on the data schema further comprises establishing in a data structure comprising the data mining model definition values for fields defining the model.

19. (Original) The method of claim 18 wherein fields defining the model comprise:

a field representing the number of consecutive records to select from the input data schema to be used for training;

a field representing the number of consecutive records to select from the input data schema to be used for development scoring;

a field limiting the number of times the data mining model goes through its input data in training mode;

a field limiting the number of fitting centers created by the mining data mining algorithm at each pass through the input data;

a field indicating the minimum number of records to be assigned to a region;

a field identifying at least one predictor field; and

a field identifying a prediction field.

20. (Original) The method of claim 1 wherein defining a data mining model based on the data schema further comprises the steps of:

AUS920010258US1

establishing in a data structure comprising the data mining model definition values for fields defining the model; and development scoring historical data wherein test output data is created; and

testing the test output data for accuracy wherein an accuracy valuation is created;

wherein the steps of establishing definition values, development scoring, and testing are repeated until the accuracy valuation meets a predetermined accuracy requirement.

21. (Original) A system for developing a domain-specific analytic application having at least one predefined data mining model, the system comprising:

means for identifying a business problem to be solved;

means for selecting a data mining algorithm appropriate for solving the business problem;

means for defining data schema for use as inputs and outputs to and from the mining algorithm, the data schema including input data schema and output data schema; and

means for defining a data mining model dependent upon the data schema, wherein use of the means for defining a data mining model results in creation of a predefined data mining model;

wherein use of the said means for identifying a business problem, means for selecting a data mining algorithm, means for defining data schema, and means for

AUS920010258US1

defining a data mining model results in development of a domain-specific analytic application, the analytic application having at least one predefined data mining model.

22. (Original) The system of claim 21 wherein the analytic application comprises the capabilities of:

production training the predefined data mining model using the historical data in the input data schema, wherein use of the capability of production training the predefined data mining model results in creation of a production trained data mining model; and

production scoring production data by use of the production trained data mining model.

23. (Original) The system of claim 22 wherein the capability of production training the data mining model further comprises the capability of operating the data mining model in training mode using end user historical data in the input data schema.

24. (Original) The system of claim 22 wherein the capability of production scoring production data by use of the production trained data mining model further comprises the capability of applying the production trained data mining model to historical data stored in input schema.

25. (Original) The system of claim 22 wherein the capability of production scoring

AUS920010258US1

production data by use of the production trained data mining model further comprises the capability of applying the production trained data mining model to production data stored read from an end user's production database.

26. (Original) The system of claim 21 wherein the analytic application further comprises the capability of populating the input data schema with historical data.

27. (Original) The system of claim 26 wherein the capability of populating the input data schema with historical data further comprises the capabilities of extracting from historical data values of prediction data fields and writing the values of the prediction data fields into the input data schema for the data mining model.

28. (Original) The system of claim 21 wherein means for identifying a business problem to be solved further comprises means for identifying a business problem capable of expression through the use of referents that are defined in a specific computational domain.

29. (Original) The system of claim 21 wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means for selecting a radial basis function algorithm for value prediction.

30. (Original) The system of claim 21 wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means for selecting a

AUS920010258US1

neural value prediction algorithm.

31. (Original) The system of claim 21wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means for selecting a demographic clustering algorithm.

32. (Original) The system of claim 21wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means for selecting a neural clustering algorithm.

33. (Original) The system of claim 21wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means for selecting a tree classification algorithm.

34. (Original) The system of claim 21wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means for selecting a neural classification algorithm.

35. (Original) The system of claim 21wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means for selecting an associations algorithm.

AUS920010258US1

36. (Original) The system of claim 21 wherein means for defining data schema for the mining algorithm further comprises:

means for selecting from historical data for inclusion in input data schema predictor fields capable of supporting the use of a data mining algorithm in predicting the value of a prediction field; and
means for selecting for inclusion in output data schema at least one prediction field.

37. (Original) The system of claim 21 wherein means for defining data schema for the mining algorithm further comprises means for selecting for inclusion in output schema sufficient key fields to comprise a unique key for identification in production data of storage locations for the output data from the data mining algorithm.

38. (Original) The system of claim 21 wherein means for defining a data mining model based on the data schema further comprises means for establishing in a data structure comprising the data mining model definition values for fields defining the model.

39. (Original) The system of claim 38 wherein fields defining the model comprise:

a field representing the number of consecutive records to select from the input data schema to be used for training;
a field representing the number of consecutive records to select from the input data schema to be used for development scoring;
a field limiting the number of times the data mining model goes through

AUS920010258US1

its input data in training mode;

a field limiting the number of fitting centers created by the mining data mining algorithm at each pass through the input data;

a field indicating the minimum number of records to be assigned to a region;

a field identifying at least one predictor field; and

a field identifying a prediction field.

40. (Original) The system of claim 21 wherein means for defining a data mining model based on the data schema further comprises:

means for establishing in a data structure comprising the data mining model definition values for fields defining the model; and

means for development scoring historical data wherein test output data is created; and

means for testing the test output data for accuracy wherein an accuracy valuation is created;

wherein the means for establishing definition values, means for development scoring, and means for testing are capable of repeated use until the accuracy valuation meets a predetermined accuracy requirement.

AUS920010258US1

41. (Original) A computer program product for developing a domain-specific analytic application having at least one predefined data mining model, the computer program product comprising:

a recording medium;

means, recorded on the recording medium, for identifying a business problem to be solved;

means, recorded on the recording medium, for selecting a data mining algorithm appropriate for solving the business problem;

means, recorded on the recording medium, for defining data schema for use as inputs and outputs to and from the mining algorithm, the data schema including input data schema and output data schema; and

means, recorded on the recording medium, for defining a data mining model dependent upon the data schema, wherein use of the means for defining a data mining model results in creation of a predefined data mining model; wherein use of the said means for identifying a business problem, means for selecting a data mining algorithm, means for defining data schema, and means for defining a data mining model results in development of a domain-specific analytic application, the analytic application having at least one predefined data mining model.

42. (Original) The computer program product of claim 21 wherein the analytic application comprises the capabilities of:

AUS920010258US1

production training the predefined data mining model using the historical data in the input data schema, wherein use of the capability of production training the predefined data mining model results in creation of a production trained data mining model; and

production scoring production data by use of the production trained data mining model.

43. (Original) The computer program product of claim 22 wherein the capability of production training the data mining model further comprises the capability of operating the data mining model in training mode using end user historical data in the input data schema.

44. (Original) The computer program product of claim 22 wherein the capability of production scoring production data by use of the production trained data mining model further comprises the capability of applying the production trained data mining model to historical data stored in input schema.

45. (Original) The computer program product of claim 22 wherein the capability of production scoring production data by use of the production trained data mining model further comprises the capability of applying the production trained data mining model to production data stored read from an end user's production database.

46. (Original) The computer program product of claim 21 wherein the analytic

AUS920010258US1

application further comprises the capability of populating the input data schema with historical data.

47. (Original) The computer program product of claim 26 wherein the capability of populating the input data schema with historical data further comprises the capabilities of extracting from historical data values of prediction data fields and writing the values of the prediction data fields into the input data schema for the data mining model.

48. (Original) The computer program product of claim 21 wherein means for identifying a business problem to be solved further comprises means, recorded on the recording medium, for identifying a business problem capable of expression through the use of referents that are defined in a specific computational domain.

49. (Original) The computer program product of claim 21 wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means, recorded on the recording medium, for selecting a radial basis function algorithm for value prediction.

50. (Original) The computer program product of claim 21 wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means, recorded on the recording medium, for selecting a neural value prediction algorithm.

AUS920010258US1

51. (Original) The computer program product of claim 21wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means, recorded on the recording medium, for selecting a demographic clustering algorithm.

52. (Original) The computer program product of claim 21wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means, recorded on the recording medium, for selecting a neural clustering algorithm.

53. (Original) The computer program product of claim 21wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means, recorded on the recording medium, for selecting a tree classification algorithm.

54. (Original) The computer program product of claim 21wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means, recorded on the recording medium, for selecting a neural classification algorithm.

55. (Original) The computer program product of claim 21wherein means for selecting a mining algorithm appropriate for solving the business problem further comprises means, recorded on the recording medium, for selecting an associations algorithm.

AUS920010258US1

56. (Original) The computer program product of claim 21wherein means for defining data schema for the mining algorithm further comprises:

means, recorded on the recording medium, for selecting from historical data for inclusion in input data schema predictor fields capable of supporting the use of a data mining algorithm in predicting the value of a prediction field; and means, recorded on the recording medium, for selecting for inclusion in output data schema at least one prediction field.

57. (Original) The computer program product of claim 21wherein means for defining data schema for the mining algorithm further comprises means, recorded on the recording medium, for selecting for inclusion in output schema sufficient key fields to comprise a unique key for identification in production data of storage locations for the output data from the data mining algorithm.

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58. (Original) The computer program product of claim 21wherein means for defining a data mining model based on the data schema further comprises means, recorded on the recording medium, for establishing in a data structure comprising the data mining model definition values for fields defining the model.

59. (Original) The computer program product of claim 38 wherein fields defining the model comprise:

a field representing the number of consecutive records to select from the

AUS920010258US1

input data schema to be used for training;

a field representing the number of consecutive records to select from the input data schema to be used for development scoring;

a field limiting the number of times the data mining model goes through its input data in training mode;

a field limiting the number of fitting centers created by the mining data mining algorithm at each pass through the input data;

a field indicating the minimum number of records to be assigned to a region;

a field identifying at least one predictor field; and

a field identifying a prediction field.

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60. (Original) The computer program product of claim 21 wherein means for defining a data mining model based on the data schema further comprises:

means, recorded on the recording medium, for establishing in a data structure comprising the data mining model definition values for fields defining the model; and

means, recorded on the recording medium, for development scoring historical data wherein test output data is created; and

means, recorded on the recording medium, for testing the test output data for accuracy wherein an accuracy valuation is created;

wherein the means for establishing definition values, means for development scoring, and means for testing are capable of repeated use until the

AUS920010258US1

accuracy valuation meets a predetermined accuracy requirement.

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